00 SC 0 P L # i-15	C/00 SC 0	Р	L	# i-14
arlson, Steven Marvell Semiconducto	Carlson, Steven	Marvel	l Semiconducto	
omment Type TR Comment Status A	Comment Type TF	Comment Status	A	
The draft is not aligned with the project objectives. Support fast-startup operation using predetermined configurations which enables the time from power_on2 = FALSE to a state capable of transmitting and receiving valid data to be less than 100 ms.	Support 100 Mb/s single balanced tv Do not preclude tl	align with its objectives. operation in automotive en visted pair. ne ability to survive automot		
	EMC, ISO16750).			
Support optional operation with run-time configuration, that specifies a maximum allowable time from power_on2 = FALSE to a state capable of transmitting and receiving valid data.	No reference is m	ade to temperature or ISO1 is not referenced to ISO16		ere is some material on
There is no mention of the 100 msec. start-up requirement in the draft and no value is given for the "maximum allowable time." If a maximum allowable time is an objective, then	SuggestedRemedy			
it must be stated, incorporated into the PICs, and a test method developed.		e 97.10 Environmental Spe ferences, and will align 100		
<i>iggestedRemedy</i> Create a new subclause (not sure where) "Start-up Time", and provide the necessary information.	Response ACCEPT IN PRIN	Response Status ICIPLE.	С	
ACCEPT IN PRINCIPLE.	Clause 96. The te	ASE-T1 has suggested the t ext from 97.10 will be copied ed to "100BASE-T1".		
Add the following to the end of 96.4.5 paragraph: "In all cases, the time from power_on = FALSE, transitioning to power_on = TRUE, to		ecessary normative referen	ces that are reference	ed in the added text.
link_status=OK shall be less than 100 ms."	C/ 00 SC 0	P 2	L 1	# i-28
PICS needs to be updated accordingly.	Law, David	Hewlet	t-Packard Ltd	
	Comment Type E	Comment Status	A	EZ
	T1 PMA sublayer T1 PHY. This spe	to IEEE Std 802.3-201x def , and type 100BASE-T1 Mer cification provides fully func /. This specification also sp	dium Dependent Inter tional and electrical s	face, used in 100BASE- pecifications for the type
	SuggestedRemedy			
	Layer (PHY) spec	to IEEE 802.3 Standard for ifications and management ver single twisted pair baland	parameters for point-	
		provides fully functional and 7. This specification also sp		
	Response	Response Status	с	
	ACCEPT.			

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 0 6/26/2015 3:10:52 PM SORT ORDER: Clause, Subclause, page, line

C/ 01 SC 1.3	P 18	L 14	# i-16	C/ 01 SC 1.		L 52	# i-6
urner, Michelle				Anslow, Peter	Ciena Corpo	oration	
omment Type GR	Comment Status A			Comment Type	ER Comment Status A		
in text. Does this doo	n 3.0 is cited in the normative r cument appear in previous ame needed for the implementation	ndments or in the	e base? If not please	abbreviations lis abbreviation wh	ns "RBW" and "VBW" only appear t). In this case, we do not include t ere it is used instead.		
				SuggestedRemedy			
SuggestedRemedy				Remove the abb In 96.5.4.4, cha	previations "RBW" and "VBW" from	n 1.5.	
esponse	Response Status C			" should be RI	BW=10 kHz, VBW=30 kHz," to: solution bandwidth = 10 kHz, video	bandwidth = 30	kHz,"
ACCEPT IN PRINCI	PLE.			Response	Response Status C		
Change "CISPR 25"	in 96.5.1 to "IEC CISPR 25".			ACCEPT.			
See response to con	ıment #i-14.						
The response to com	nment i-14 is copied below for t	he convenience (of the reader.				
ACCEPT IN PRINCI	PLE.						
	E-T1 has suggested the text fro from 97.10 will be copied into a to "100BASE-T1".						
Additionally add nec	essary normative references the	at are referenced	in the added text.				
C/ 01 SC 1.3	P 18	L 14	# i-29				
aw, David	Hewlett-Pack	ard Ltd					
<i>Comment Type</i> E Typo, missing space	Comment Status A			EZ			
uggestedRemedy	Padia 'should read' ongin	es - Radio'.					
The text ' engines	Naulo Shoulu leau engin						
SuggestedRemedy The text ' engines · Response	Response Status C						

C/ 01 SC 1.5

CI 22	SC 22.1	P 22	L 1	# <u>i-12</u>
Grow, Robe	ert	Self Employed		

Comment Type GR Comment Status A

*** Comment submitted with the file 85554200003-Clause 22 changes.docx attached ***

The project needs changes to Clause 22 to be compatible with the base document. This is highlighted on P802.3/D3.0, page 45, line 40.

The statement that the MII is for PHYs of 10 Mb/s and above is clearly wrong. The MII is only specified for 10 Mb/s and 100 Mb/s, and the MII management interface is also only applicable to some of the 1000 Mb/s PHYs that have been specified. P802.3bw does not propose use of either the MII management interface nor the MII register set.

Examples of problematic text (P802.3/D3.0):

22.1.1, c) -- P802.3bw does not use these signals, only the MII data paths, so the management interface needs to be optional to claim use of the MII.

22.1.2 -- This subclause describes exposed interfaces, not a logical interface, where components are separable (e.g., use data paths but not management interface, electrical specifications do not apply to a logical interface.)

22.1.5 -- "to determine PHY capabilities for any supported speed of operation". This is not true for many Ethernet PHYs. Since P802.3bw is 100 Mb/s PHYs and it does not use MII capabilities for management, it has the greatest burden to make sure Clause 22 is corrected.

22.2.4, 3rd para. -- "All PHYs that provide an MII shall incorporate the basic register set. All PHYs that provide a GMII shall incorporate an extended basic register set consisting of the Control register (Register 0), Status register (Register 1), and Extended Status register (Register 15). The status and control functions defined here are considered basic and fundamental to 100 Mb/s and 1000 Mb/s PHYs. Registers 2 through 14 are part of the extended register set." P802.3bw is, I believe, the first 100 Mb/s PHY for which this is not true, so it has to be fixed.

22.8.3.5, MF45 and MF 59 -- "all PHYs". Not true of a P802.3bw PHY.

SuggestedRemedy

The attached file proposes changes to Clauses 22 to fix the text. A more comprehensive comment has been submitted on P802.3 (to also fix for Gigabit). If accepted, the PICS for Clause 22 will also need to be revised to provide optionality similar to that in Clause 35. The P802.3bw TF should take the lead in correction of the PICS whether the changes are done in P802 or P802.3bw.

Response

Response Status U

ACCEPT IN PRINCIPLE.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

The commenter points out a valid inconsistency between the P802.3bw draft and IEEE Std 802.3-2012. As the commenter pointed out, this problem exists for other active 802.3 amendment projects (P802.3bp & P802.3bv). The P802.3bw TF will work with P802.3 (802.3bx) to assure appropriate changes are made in the revision of Std 802.3.

This topic is being considered in P802.3bx under comment #i-89. Comment #i-89 was accepted as AIP in Maintenance comment resolution.

C/ 30	SC :	30.3.2.1.2	P 2	3	L 12	# i-30
Law, David			Hewl	ett-Packar	d Ltd	
Comment T	уре	ER	Comment Status	Α		
			uctions in respect List attributes.	to where to	o place the new	w entry in the
Suggested	Remed	'y				
			ction for aPhyType ATE SYNTAX after			ad 'Insert the following 2:'.
Response			Response Status	С		
ACCEF	۲۰ .					
C/ 30	SC :	30.5.1.1.2	P 2	3	L 35	# i-31
Law, David			Hewl	ett-Packar	d Ltd	
Comment T	уре	ER	Comment Status	Α		
howeve	er that of	could mean	t the 100BASE-T1 between the entry ead the 100BASE-	/ for 100BA	ASE-T2 and 10	0BASE-T2HD which I
T2FD e	ntry.					
	,					
T2FD e Suggestedl Change	Remed	<i>ly</i> diting instru	ction for aMAUTyp (after the entry for			
T2FD e Suggestedf Change	Remed	<i>ly</i> diting instru		100BASE		

C/ 30 SC 30.5.1.1.2

Page 3 of 23 6/26/2015 3:10:53 PM

C1 30 SC 30.5.1.1.4 P 23 L 46 # [:] C1 45 SC 45.2.1 P 24 L 10 Hajduczenia, Marek Bright House Network Kardellan, Brett Marvell Semiconducto Comment Type E Comment Status A EZ Comment Type TR Comment Status A Suggested/Remedy Suggested/Remedy Change For 100BASE-T1, a link_status of OK maps to the enumeration 'available'. All other states of link, status map to the enumeration 'not available'. All other states of link, status map to the enumeration 'not available'. All other states of link, status map to the enumeration 'not available'. All other states of link, status map to the enumeration 'not available'. All other states of status map to the enumeration 'not available'. All other states of SC 45.2.1 P 24 L 3 Response Response Status C ACCEPT. Cl 45 SC 45.2.1 P 24 L 3 Comment Type TR Comment Status A Comment Status A Comment Status C ACCEPT. Cl 45 SC 45.2.1 P 24 L 3 Comment Type TR Comment Status A Ciena Corporation ACCEPT. Cl 45 SC 45.2.1 P 24 L 3 Anslow, Peter Ciena Corporation Comment Type TR Comment Sta						-						
Comment Type E Comment Status A EZ Comment Type E Comment Status A Enumeration values are typically presented in "" and not in ". For example: Offline maps to the enumeration "offline," EZ SuggestedRemedy Change Comment Type TR Comment Type TR Comment Type Com	# i-35							# i-1	•			
link_status map to the enumeration 'not available'. See response to comment #i-8. to For 100BASE-T1, a link_status of OK maps to the enumeration "available". All other states of link_status map to the enumeration "not available". See response to comment i-8 is copied below for the convenience of the c	,	BASE-T1 PMA/PN	omment Status A lefined a new register "I new register is not liste e 45-3.	.1.14b de ever the n to Table <i>Res</i> p	be TR section 45.2.1 1.18)", howev <i>medy</i> sew register to	Comment Typ page 26 s register (* SuggestedRe Add the n Response			d not in ". For ex	Comment Status A vpically presented in "" an "offline,"	ype E ation values are to the enumeration Remedy	Comment T Enume maps t Suggested Change For 100
C/ 45 SC 45.2.1 P 24 L 10 # i-3 Marris, Arthur Cadence Design Syst For the existing clauses that are being modified by the amendment, we of each level down to the heading for the text being modified. (As was FrameMaker template). Headings for 45.2, 45.2.3, and 45.2.3.1 are missing Comment Type TR Comment Status A Table 45-3 needs to include register 1.18 SuggestedRemedy Headings for 45.2, 45.2.3, and 45.2.3.1 Build the headings for 45.2, 45.2.3, and 45.2.3.1 Response Response Status C	of the reader. # [i-7	L 3	B is copied below for the		onse to comn SC 45.2.1	The response ACCEPT	states	ilable". All other ເ		status of OK maps to the e umeration "not available".	BASE-T1, a link_s	to For 100 of link_sta Response
ACCEPT IN PRINCIPLE.		modified. (As was	are being modified by the ading for the text being and 45.2.3.1 are missing 5.2.3, and 45.2.3.1	the sthat a the head e). 5.2.3, and 45.2, 45.	kisting clause evel down to t ker template for 45.2, 45. medy eadings for 4	For the ex of each le FrameMa Headings SuggestedRe Add the h Response			sign Syst	Cadence De Comment Status A de register 1.18 8 for "BASE-T1 PMA/PM	ur ype TR 5-3 needs to inclu Remedy pw for Register 1.4	Marris, Arth Comment T Table 4 Suggested Insert r Response

The response to comment i-8 is copied below for the convenience of the reader.

ACCEPT.

C/ **45** SC **45.2.1**

C/ 45 SC 45.2.1 P 24 L 5 # i-8 Anslow, Peter Ciena Corporation Ciena Corporation Ciena Corporation	Cl 45 SC 45.2.1.131 P 26 L 30 # i-36 Mcclellan, Brett Marvell Semiconducto Marvell Semiconducto Marvell Semiconducto Marvell Semiconducto
omment Type TR Comment Status A Register 1.18 has been allocated in 45.2.1.14b. This means that Table 45-3 should show the change from the base standard where this register is reserved: "1.17 through 1.29 Reserved"	Comment Type TR Comment Status A MASTER-SLAVE manual config enable description says "Value always 1, writes ignored" but the last column indicates R/W. The description should not say that writes are ignored which contradicts the objective of not precluding auto-negotiation.
uggestedRemedy	SuggestedRemedy
Insert a change to Table 45-3 above the existing change in a similar manner as was done in IEEE Std 802.3bj-2014. Make the editing instruction: "Replace the reserved row for 1.17 through 1.29 in Table 45-3 with the following three rows (unchanged of the reserved row for 1.17 through 1.29 in Table 45-3 with the following three rows	change description to "Set to 1 for manual configuration" on line 46 change "Bit 1.2100.15 returns a one to indicate that MASTER or SLAVE configuration is set manually." to "Bit 1.2100.15 is set to one for manual MASTER or SLAVE configuration."
(unchanged rows not shown):" Add a new Table 45-3 with three rows plus headings (no underline or strikethrough font, make 45.2.1.14b a cross-reference): 1.17 Reserved	Response Response Status C ACCEPT IN PRINCIPLE.
1.18 BASE-T1 PMA/PMD extended ability 45.2.1.14b 1.19 through 1.29 Reserved	See response to comment #i-9.
esponse Response Status C	The response to comment i-9 is copied below for the convenience of the reader.
ACCEPT.	ACCEPT IN PRINCIPLE.
/ 45 SC 45.2.1.131 P 26 L 21 # i-80 // ienckowski, Natalie General Motors Comp	Bit 1.2100.15 should be changed to "RO". ", writes ignored" should be deleted.
omment Type T Comment Status A	Cl 45 SC 45.2.1.131 P 26 L 30 # i-9
Register 1.2100 (Table 45-98a) will be used in 802.3bp as well. Change of register name and subclause titles are needed.	Anslow, Peter Ciena Corporation Comment Type TR Comment Status A
IggestedRemedy	In Table 45-98a, the Description for bit 1.2100.15 is "Value always 1, writes ignored" and
i. Change page 24, line 13, in Table 45-3, Register name for address 1.2100 from "100BASE-T1 PMA/PMD control" to "BASE-T1 PMA/PMD control". ii. Change page 26, line 21 from "45.2.1.131 100BASE-T1 PMA/PMD" To "45.2.1.131	the R/W column has "R/W". If writes are ignored, then the bit is not R/W. Note - There are no table entries in Clause 45 which say "writes ignored" where the R/W column contains "R/W"
BASE-T1 PMA/PMD". iii. Change page 26, line 23 from "The assignment of bits in the 100BASE-T1 PMA/PMD"	SuggestedRemedy Either remove ", writes ignored" from the description or change to "RO"
to "The assignment of bits in the BASE-T1 PMA/PMD". iv. Change page 26, line 26, Table 45-98a title rom "100BASE-T1 PMA/PMD" to "BASE-	Response Response Status C
T1 PMA/PMD". v. Change page 26, line 45, from "45.2.1.131.1 100BASE-T1 MASTER-SLAVE manual"	ACCEPT IN PRINCIPLE.
to "45.2.1.131.1 BASE-T1 MASTER-SLAVE manual". vi. Change page 26, line 50, from "45.2.1.131.2 100BASE-T1 MASTER/SLAVE config" to "45.2.1.131.2 BASE-T1 MASTER/SLAVE config". vii. Change page 27, line 1, from "45.2.1.131.3 100BASE-T1 type" to "45.2.1.131.3 BASE-T1 type".	Bit 1.2100.15 should be changed to "RO". ", writes ignored" should be deleted.
esponse Response Status C	
ACCEPT.	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 45 SC 45.2.1.131 Page 5 of 23 6/26/2015 3:10:53 PM

C/ 45 SC 45.2.1.131.1 P 26 Anslow, Peter Ciena Corp	L 47 poration	# i-10	C/ 45 Scantambur	SC 45.2.1.132 o, Nicola	2 P 27 Canova Tech	L 23	# <u>i-13</u>	
Comment Type E Comment Status A The first sentence of 45.2.1.131.1 is: "Bit 1.2100. or SLAVE configuration is set manually." The second sentence starts "In that case," which always a 1.			SuggestedR	egister number emedy	Comment Status A .12:0, should be 1.2102.12:0			EZ
SuggestedRemedy Delete the start of the sentence "In that case,"			Response ACCEP	г.	Response Status C			
Response Response Status C ACCEPT IN PRINCIPLE.			C/ 96 Marris, Arthu	SC 96.1 r	P 28 Cadence Desig	<i>L</i> 35 gn Syst	# [i-4	
Remove the second sentence of 45.2.1.131.1. Cl 45 SC 45.2.1.131.2 P 26 Anslow, Peter Ciena Corp	L 52	# [i-11	Comment Ty There is SuggestedR	no need to say	Comment Status A MII is optional			
Comment Type T Comment Status A The first sentence of 45.2.1.131.2 is: "Bit 1.2100. operation if MASTER-SLAVE manual config enal This doesn't make sense because bit 1.2100.15 i	ble bit 1.2100.15 is		Response ACCEP	f MII is optional	for 100 Mb/s systems." <i>Response Status</i> C E.			
SuggestedRemedy Delete "if MASTER-SLAVE manual config enable Response Response Status C ACCEPT IN PRINCIPLE.	bit 1.2100.15 is se	et to one".	to		Mb/s systems" of MII is optional"			
This register is now ready-only.								
See response to comment #i-9. The response to comment i-9 is copied below for	the convenience of	f the reader.						
ACCEPT IN PRINCIPLE.								
Bit 1.2100.15 should be changed to "RO". ", writes ignored" should be deleted.								

C/ 96 SC 96.1 Page 6 of 23 6/26/2015 3:10:53 PM

						•			
C/ 96	SC 96.1	P 28	L 40	# i-5	C/ 96	SC 96.1	P 29	L 24	# <u>i</u> -57
Marris, Arth	hur	Cadence Des	ign Syst		Law, Dav	id	Hewlett-Pack	ard Ltd	
"This c Sublay	d the following: clause defines th ver and type Phy	Comment Status A e 100BASE-T1 PHY type, op sical Medium Attachment sub e 100BASE-T1 Physical layer	layer. Together		block not si	/III TX_EN signa yet the PMA Se upport this. Furth	Comment Status A I is shown crossing the PMA s rvice Interface defined in 96.2 her the PHY CONTROL state of (see page 62, line 1).	.2, and illustrate	d in Figure 96-3, does
The RS Suggested Change "This c Sublay sublay To:	S is included in t <i>Remedy</i> le: clause defines th ver and type Phy ers comprise the	he Physical layer (but not the e 100BASE-T1 PHY type, op sical Medium Attachment sub e 100BASE-T1 Physical layer e PCS and PMA sublayers of	PHY)> erating at 100 M layer. Together "	, the PCS and the PMA	Suggeste [1] Re [2] If t in 96. updat Response ACCI	dRemedy emove the TX_E tx_enable is requ 2.2 to provide a te in Figure 96-2 e EPT IN PRINCIP	N connection to PHY CONTR uired by PHT CONTROL, upda primitive to signal tx_enable a and 96-14 accordingly. <i>Response Status</i> C LE.	ated the PMA Se cross the PMA S	ervice Interface defined
Response ACCEF		Response Status C			2) In "PMA 3) In 4) Or 96.2.	96.2.2, add the f TXEN.request Figure 96-3, add page 37 line 26 11 PMA_TXEN.r	a connection from PCS to PN	/IA, with label: "P ng sections:	

96.2.11.1 Semantics of the primitive PMA_TXEN.request (TX_EN)

The TX_EN parameter can take on one of two values of the form: TRUE The data transmission on MII is enabled. FALSE The data transmission on MII is not enabled.

96.2.11.2 When generated PCS generates the PMA_TXEN.request messages continuously based on TX_EN signal received from MII.

96.2.11.3 Effect of receipt The effect of receipt of this primitive is specified in Figure 96–17.

C/ 96 SC 96.1 Page 7 of 23 6/26/2015 3:10:53 PM

To

C/ 96	SC 96.1	P 29	L 3	# i-56	
Law. David	1	Hewlett-Packa	ard Ltd		

Comment Type E Comment Status A

The Technology Dependent Interface should be designated with a dashed line and a cross reference to Clause 28 where it is defined should be added.

SuggestedRemedy

 Add a dashed line to designate the Technology Dependent Interface.
 Change the text 'Technology Dependent Interface' to read 'Technology Dependent Interface (Clause 28)'.

Response

Response Status C

ACCEPT IN PRINCIPLE.

1) In Figure 96-2, remove the dashed line at top with "Technology Dependent Interface" text. Add a block label as "MANAGEMENT" at top. Connect the two lines link_control and link_status to the right side of this new "MANAGEMENT" block. From left hand-side, add two signal inputs to the "MANAGEMENT" block, called "MDIO" and "MDC". Generate an output signal from "MANAGEMENT" block and connect it to the existing "config" signal. Re-direct the output "config" signal of "PHY CONTROL" to be input to "PHY CONTROL". See modified figure in http://ieee802.org/3/bw/public/Chini_3bw_01_0515.pdf.

2) Delete subclause 96.2.1 and all children subclauses, and re-number other sub-clauses accordingly.

3) In Figure 96-3, remove the dashed line at top and "Technology Dependent Interface" text. Also, remove the three lines labeled PMA_LINK.request, PMA_LINK.indication, and PMA_CONFIG.indication and the text.

4) In Figure 96-14, follow the same modification as above for Figure 96-2.

5) On page 59 line 29, change

"FORCE mode is used to set link_control to ENABLE during the PHY initialization.Link Monitor operation, as shown in state diagram of Figure 96–18, shall be provided to support PHY Control."

to

"Link Monitor operation, as shown in state diagram of Figure 96–18, shall be provided to support PHY Control. FORCE mode is used to set link_control to ENABLE through MANAGEMENT during the PHY initialization."

6) On page 59 line 45, change

"link_control This variable is configured by management or set by default and is defined in 28.2.6.2. "

То

"link_control This variable is generated by MANAGEMENT or set by default."

7) on page 43 line 8, change

"config The config parameter set by PMA and passed to the PCS via the PMA_CON-

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

FIG.indication primitive." To

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

8) On page 59 line 42, change

"config The PMA shall generate this variable continuously and pass it to the PCS via the PMA_CONFIG.indication primitive."

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

9) On page 32 line 39, remove PMA_CONFIG.indication (config) . Also remove sub-clause 96.2.4 and its children.

C/ 96 Hajduczenia	SC 96.1.1.2	P3 Bright	0 t House Netw	L 36	# i-2
Comment T	ype E	Comment Status ie word "manageme	R	VOIR	
SuggestedF Remove	Remedy e the said under	ine			
Response REJEC	Т.	Response Status	С		

The "underline" the commentor refers to is actually a repeating symbol to the 66.666 MBd on the line below.

C/ 96 SC 96.1.1.2 Page 8 of 23 6/26/2015 3:10:53 PM

C/ 96 SC 96.1.2 P 31	L 1	# i-20	C/ 96 SC 96.	10.4.4	P 80	L 21	# i-79	
.aw, David Hewlett-P	ackard Ltd		Wienckowski, Natalie	9	General Moto	ors Comp		
Comment Type TR Comment Status A			Comment Type E	Comn	nent Status A			
The definition of the notation, service and timer s own subclause heading. In addition there is no s precedence over text.			SuggestedRemedy		es not match name	in the rest of the	document.	
SuggestedRemedy			Replace: min_w With: minwait ti					
[1] Add a new subclause 96.1.2 as follows:			Response		nse Status C			
96.1.2 'Conventions in this clause'.			ACCEPT.					
The body of this clause contains state diagrams constants, and functions. Should there be a disc descriptive text, the state diagram prevails.			<i>Cl</i> 96 SC 96 . Law, David	2.2	P 33 Hewlett-Pack	L 2 ard Ltd	# <u>i-58</u>	
[2] Renumber and rename existing subclause 96 Diagram Notation'.	6.1.2 'Notation' to be 96.	1.2.1 'State	Comment Type E Why is Figure 96 detailed view of t	- 3, which is an	nent Status A overview, placed af	ter Figure 96-2, v	which is the more	EZ
[3] Renumber, reorder and rename existing subo '96.1.2.3 'Service specification'.	clause 96.1.3 'Service s	pecification' to be	SuggestedRemedy Swap the order of	of Figure 96-3 a	nd Figure 96-2.			
[4] Renumber, reorder and rename existing subo '96.1.2.2 'State Diagram Timer specification'.	clause 96.1.4 'Timer spe	ecification' to be	Response ACCEPT.	Respo	nse Status C			
Response Response Status C ACCEPT.			CI 96 SC 96. Wienckowski, Natalie		P 35 General Moto	L 22 ors Comp	# [i-76	
Cl 96 SC 96.10.4.4 P 80 Nienckowski, Natalie General M	L 19 lotors Comp	# i-78	Comment Type E Inconsistent varia		nent Status A			
Comment Type E Comment Status A			SuggestedRemedy					
Variable name used in PICS does not match na	me in the rest of the doc	cument.	Replace: The rx With: The rx_sy		•			
SuggestedRemedy Replace: max_wait_timer With: maxwait_timer			Response ACCEPT.	Respo	nse Status C			

C/ 96 SC 96.2.6.1

Cl 96 SC 96.2.6.1 Wienckowski, Natalie	P 35 General Moto	L 27 ors Comp	# i-77	<i>Cl</i> 96 SC 96.3 Law, David	P 38 Hewlett-P	L 37 ackard Ltd	# <u>i-61</u>
Comment Type E Inconsistent variable na	Comment Status A				Comment Status R tical dashed line to design	ate the Media In	dependent In-terface as
SuggestedRemedy Replace: are called rx_ With: are called rx_sym				there is for the PMA S SuggestedRemedy See comment.	service interface.		
Response ACCEPT.	Response Status C			Response REJECT.	Response Status C		
C/ 96 SC 96.3	P 38	L 19	# i-60	The vertical dashed li	ne is present in the figure s	96-4.	
Law, David	Hewlett-Packa	ard Ltd		C/ 96 SC 96.3.2.1	P 39	L 5	# i-62
Comment Type E	Comment Status A			Law, David	Hewlett-P	ackard Ltd	
The block is labelled 'Po data transmission enab	CS DATA TRANSMIT ENAB	LE' yet subclaus	e 96.3.2.1 is 'PCS	Comment Type E	Comment Status A		
				The title of subslauge	96.3.2.1 'PCS data transm	viccion onable' w	at an this line the
SuggestedRemedy Suggest that these sho	uld match.			reference is to ' the	PCS data transmission en transmission enabling stat	abling' and the	
SuggestedRemedy Suggest that these sho Response ACCEPT IN PRINCIPLI	Response Status C			reference is to ' the diagram is 'PCS data SuggestedRemedy	PCS data transmission en	abling' and the e diagram'.	e name of the state
Suggest that these show Response ACCEPT IN PRINCIPLI	Response Status C	in the diagram.		reference is to ' the diagram is 'PCS data SuggestedRemedy Consistently use eithe Response	PCS data transmission en transmission enabling stat er 'transmission enable' or <i>Response Status</i> C	abling' and the e diagram'.	e name of the state
Suggest that these show Response ACCEPT IN PRINCIPLI Label it as "PCS DATA C/ 96 SC 96.3	Response Status C E.	L 20	# [i-59	reference is to ' the diagram is 'PCS data SuggestedRemedy Consistently use eithe Response ACCEPT IN PRINCIF	PCS data transmission en transmission enabling stat er 'transmission enable' or <i>Response Status</i> C	abling' and the e diagram'. 'transmission ena	e name of the state abling'.
Suggest that these show Response ACCEPT IN PRINCIPLI Label it as "PCS DATA C/ 96 SC 96.3 Law, David Comment Type T	Response Status C E. TRANSMISSION ENABLE" P 38	<i>L</i> 20 ard Ltd		reference is to ' the diagram is 'PCS data SuggestedRemedy Consistently use eithe Response ACCEPT IN PRINCIF	PCS data transmission en transmission enabling stat er 'transmission enable' or <i>Response Status</i> C LE.	abling' and the e diagram'. 'transmission ena	e name of the state abling'.
Suggest that these show Response ACCEPT IN PRINCIPLI Label it as "PCS DATA C/ 96 SC 96.3 Law, David Comment Type T	Response Status C E. TRANSMISSION ENABLE" P 38 Hewlett-Packa Comment Status R an input to the PCS TRANS	<i>L</i> 20 ard Ltd		reference is to ' the diagram is 'PCS data SuggestedRemedy Consistently use eithe Response ACCEPT IN PRINCIF	PCS data transmission en transmission enabling stat er 'transmission enable' or <i>Response Status</i> C LE.	abling' and the e diagram'. 'transmission ena	e name of the state abling'.

C/ 96 SC 96.3.2.1

C/ 96 SC 96.3.2.1.1 P 39 L 47 # i-17	C/ 96 SC 96.3.2.2 P 39 L 4 # [i-63
Zhang, Jin Marvell Semiconducto	Law, David Hewlett-Packard Ltd
omment Type T Comment Status A The definition of tx_error_mii is counter-intuitive. False - errored transmission, True- No error. It also contradicts the definition of TX_ER, where 1 means error, 0 means no error. uggestedRemedy False: no error. True: error transmission. esponse Response Status C ACCEPT IN PRINCIPLE.	Comment Type E Comment Status A According to figure 96-4 the 4B/3B conversion function is part of the PCS TRANSMIT sind this has TXD<3:0>, tx_error_mii and tx_enable_mii as inputs. Since subclause 96.3.2.3 is the PCS Transmit subclause, suggest that the 4B/3B subclause 96.3.2.2, and its subclauses, should be moved under 96.3.2.3. SuggestedRemedy [1] Insert new heading 96.3.3 PCS Transmit to match block in Figure 96-4. [2] Renumber 96.3.2.2 to 96.3.3.1 as the first subclause (function) of the PCS transmit.
See response to comment #i-18.	[3] Renumber remaining subclauses.ResponseResponse StatusC
The response to comment i-18 is copied below for the convenience of the reader. ACCEPT.	ACCEPT IN PRINCIPLE. Remove "96.3.2 PCS Transmit".
ACCEPT. On Page 39, line 48, replace the paragraph with commenter's whole paragraph suggestion. / 96 SC 96.3.2.11 P 39 L 48 # [i-18] /u, Peter Marvell Semiconducto	Change "96.3.2.1" to "96.3.2" Insert "96.3.3 PCS Transmit" before "96.3.2.2 4B/3B conversion" Renumber as necessary.
Interpret Type GR Comment Status A FALSE and TRUE descriptions are inverted. Interpreted/ The tx_error_mii variable is generated in the PCS data transmission enabling	Cl 96 SC 96.3.2.2.2 P 40 L 30 # i-64 Law, David Hewlett-Packard Ltd Comment Type E Comment Status R
state diagram as specified in Figure 96-5. When this variable is set to FALSE it indicates a non-errored transmission, when set to TRUE it indicates an errored transmission. <i>esponse</i> Response Status C ACCEPT.	Suggest ' shall be discarded at the receiver side upon' should read ' shall be discarded at the receiver upon'. SuggestedRemedy See comment. Response Response Status C
On Page 39, line 48, replace the paragraph with commenter's whole paragraph suggestion.	REJECT. See response to comment #i-65. The response to comment i-65 is copied below for the convenience of the reader.
	ACCEPT. Update PICS accordingly.

C/ 96 SC 96.3.2.2.2

Cl 96 SC 96.3.2.2. Law, David	2 P 40 Hewlett-Pack	<i>L</i> 30 ard Ltd	# i-65	C/ 96 SC 96.3.2.3.1 Law, David	P 43 Hewlett-Pack	<i>L</i> 50 ard Ltd	# i-69
Comment Type T It seems odd to include section.	Comment Status A e a shall statement in respect	to the receiver i	n the transmit PCS	Delete the tx_symb_vector	Comment Status A r variable as it is not used	in the transmit s	tate diagrams.
SuggestedRemedy Suggest ' shall be dis discarded at the receiv Response ACCEPT. Update PICS accordin	Response Status C	pon' should r	ead ' will be	SuggestedRemedy See comment. Response ACCEPT IN PRINCIPLE. Remove duplicate tx_syml Config is defined in 96.2.5	_	.2.3.1.	
C/ 96 SC 96.3.2.3 Law, David	P 42 Hewlett-Pack	L 19 ard Ltd	# [i-66	C/ 96 SC 96.3.2.3.1 Law, David	P 43 Hewlett-Packs	L 8 ard Ltd	# <u>i-67</u>
function for example is SuggestedRemedy	Comment Status A wing subclauses, only relates also part of the PCS transmi e to be 'PCS Transmit state d Response Status C	t (see my previo		Delete the config variable SuggestedRemedy See comment. Response F ACCEPT IN PRINCIPLE.	Response Status C	nsmit state diagra	ams.
C/ 96 SC 96.3.2.3. Law, David	1 P 43 Hewlett-Pack	L 11 ard Ltd	# <mark>i-68</mark>	Remove duplicate config c			
Comment Type T Delete the DATA varia	Comment Status R ble as it is not used in the tra	nsmit state diag	rams.				
SuggestedRemedy See comment.							
Response REJECT.	Response Status C						
The variable DATA is I	referenced in section 96.3.2.4	.10.					

C/ 96 SC 96.3.2.3.1

	C/ 96 SC 96.3.2.4 P 46 L 4 # i-73
aw, David Hewlett-Packard Ltd	Law, David Hewlett-Packard Ltd
Comment Type T Comment Status A	Comment Type T Comment Status A
The text states that 'The reference diagram of PCS transmit symbol mapping is indicated in Figure 96-8.' however the figure shown in Figure 96-8 is much broader that just PCS transmit symbol mapping, for example the 4B/3B conversion block is shown, and one of the blocks itself is labled 'SYMBOL MAPPING'.	Based on the equations in subclause 96.3.2.4.6 'Generation of (TAn, TBn) when tx_mode = SEND_I', 96.3.2.4.7 'Generation of (TAn, TBn) when tx_mode = SEND_N, tx_enable = 1' and 96.3.2.4.8 'Generation of (TAn, TBn) for idle sequence when tx_mode=SEND_N' all using tx_mode as an input, add both tx_mode and tx_enable as an inputs to the block 'SYMBOL MAPPING'.
uggestedRemedy Suggest text be changed to read ' 'The reference diagram of PCS transmit is shown in	SuggestedRemedy
Figure 96-8.'. The title of Figure 96-8 should also be changed.	Add tx_mode and tx_enable as inputs to the block 'SYMBOL MAPPING'.
Pesponse Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
Replace heading 96.3.2.4 to "PCS transmit symbol generation". Also on page 45 line 34, Replace "mapping " with "generation". Also change Figure 96-8 title to "PCS transmit symbol generation".	Add tx_mode as an input to "Symbol Mapping" block. tx_enable is already an input to this block.
7/96 SC 96.3.2.4 P 46 L 15 # [i-71	Draw new tx_mode line from left side of diagram to "SYMBOL MAPPING".
aw, David Hewlett-Packard Ltd	C/ 96 SC 96.3.2.4 P 46 L 8 # [i-75
Comment Type T Comment Status A	Law, David Hewlett-Packard Ltd
Based on the equation in subclause 96.3.2.4.3, tx_mode is an input to the side stream scrambler.	Comment Type T Comment Status A
uggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'.	It is not clear how the PCS transmit state diagram fits within the figure. As an example in the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>.
Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Response Response Status C	the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0>
uggestedRemedy Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'.	the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>. SuggestedRemedy
Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Pesponse Response Status C ACCEPT. P 96 SC 96.3.2.4 P 46 L 3 # 1-72	the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>. <i>SuggestedRemedy</i> Show where the PCS transmit state diagram fits within this figure.
Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Pesponse Response Status C ACCEPT. AC	the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>. SuggestedRemedy Show where the PCS transmit state diagram fits within this figure. Response Response Status C
Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Pesponse Response Status C ACCEPT. P 96 SC 96.3.2.4 P 46 L 3 # 1-72	the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>. SuggestedRemedy Show where the PCS transmit state diagram fits within this figure. Response Response Status C ACCEPT IN PRINCIPLE.
Add tx_mode as an input to the block 'SIDE STREAM SCRAMBLER'. Pesponse Response Status C ACCEPT. AC	the state 'TRANSMIT DATA' the tx_sym_pair is set equal to ENCODE of tx_data<2:0> which would appear to the equivalent of sdn<2:0>. SuggestedRemedy Show where the PCS transmit state diagram fits within this figure. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.2.4, add the following after the first sentence

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 96 SC 96.3.2.4 Page 13 of 23 6/26/2015 3:10:53 PM

aw, David Hewlet-Packard Lid Comment Type Comment Status & A Based on the equations in subclasse 96.3.2.4.4 using both tx_enable and loc_row_status as inputs the DATA SCRAMBLER block. The variable 'mil_Le or' is set TRUE' is set TRUE' in the TADA SDD' state of the PCS Receive state diagram. set FALSE deswhere, but is never used. Further, a take carrier error is alread: correctly signaled cares the Nill hough the use of 'psr.e.r' = TRUE' and 'psr.e.d' Add both tx_enable and loc_row_status as inputs to the DATA SCRAMBLER' The variable 'mil_Le or' variable and remove from the 'BAD SDD' atte of the PCS Receive state diagram. the false carrier error is alread: correctly signaled cares the Nill hough the use of 'psr.e.d' FALSE is the Wheth-Packard Lid' Draw new loc_row_status line from bt_enable inte to 'DATA SCRAMBLER' The variable 'mil_Le or' variable and remove from the 'BAD SDD' attes of the PCS Receive state diagram. the false carrier error should be indicated dargam. Crie & SC 96.3.1 P50 L12 # 168 Crie & SC 96.3.1 P50 L12 # 168 Comment Type T Comment Status A Add a new paragraph at the end of 66.3.3.5 mad as follows. The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. P50 L3 # 025 Suggested/Remedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3	mment Type T Comment Status A Based on the equations in subclause 96.3.2.4.4 using both tx_enable and loc_rcvr_status as inputs, these need to be added as inputs to the 'DATA SCRAMBLER' block. aggestedRemedy Add both tx_enable and loc_rcvr_status as inputs to the 'DATA SCRAMBLER' block. signesse Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 w, David Hewlett-Packard Ltd mment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. esponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3.	Comment Type TR Comment Status A The variable 'mii_fc_err' is set TRUE in the 'BAD SSD' state of the 'PCS Receive and iagram', set FALSE elsewhere, but is never used. Further, a false carrier error is correctly signalled across the MII through the use of 'pcs_rx_er = TRUE' and 'pcs_FALSE' in the 'BAD SSD' state. SuggestedRemedy Delete the 'mii_fc_err' variable and remove from the 'BAD SSD' and 'IDLE' states 'PCS Receive state diagram'. Response Response Status C ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." C/ 96 SC 96.3.3.1 P 50 L 3 # [-2] Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' he variable row_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB	is alread s_rx_dv s of the e false 25 25 s only use ate = JAE E in the
Based on the equations in subclause 96.3.2.4.4 using both tx. enable and loc_rcvr_status as inputs, these need to be added as inputs to the DATA SCRAMBLER lobck. Based on the equations in subclause 96.3.2.4.4 using both tx. enable and loc_rcvr_status as inputs to the DATA SCRAMBLER lobck. Suggested/Remedy Add both tx_enable and loc_rcvr_status as inputs to the DATA SCRAMBLER' block. Response Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". C/ 96 SC 96.3.1 P50 L12 # isage Comment Type T Comment Status A The values IDLE, SD1, SD2, SD3, ESD1, ESD2, ESD3 and ERR_ESD3. SD2 96.3.1 P50 L12 # isage Suggested/Remedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Besponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 P50 L15 # isage L296 SC 96.3.1 P50 L15 # isage L296 SC 96.3.1 P50 L3 # isage L39 # isage	Based on the equations in subclause 96.3.2.4.4 using both tx_enable and loc_rcvr_status as inputs, these need to be added as inputs to the 'DATA SCRAMBLER' block.	The variable 'mii_fc_err' is set TRUE in the 'BAD SSD' state of the 'PCS Receive a diagram', set FALSE elsewhere, but is never used. Further, a false carrier error is correctly signalled across the MII through the use of 'pcs_rx_er = TRUE' and 'pcs_FALSE' in the 'BAD SSD' state. SuggestedRemedy Delete the 'mii_fc_err' variable and remove from the 'BAD SSD' and 'IDLE' states 'PCS Receive state diagram'. Response Response Status C ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." C/ 96 SC 96.3.1 P 50 L 3 # [-2] Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB"	is alread s_rx_dv s of the e false 25 25 s only use ate = JAE E in the
Suggested/Remedy Add both ty, enable and loc_rcvr_status as inputs to the DATA SCRAMBLER' block. Response Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to 'DATA SCRAMBLER'. Draw line from tx_enable line to 'DATA SCRAMBLER' Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to 'DATA SCRAMBLER'. Draw line from tx_enable line to 'DATA SCRAMBLER' Response Status C ACCEPT IN PRINCIPLE. Add both ty, ESD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. SuggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 Mode To the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 Mode To the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 are eg 66.3.2.3.1." P 50 L 15 C1 96 SC 96.3.3.1 P 50 L 15 # 137 Viccellian, Bret Marvell Semiconducto Comment Status A The variable 'Ustate is degram, for ong it back to the IDLE state is us degram, tate and its only use a variable state diagram to controt the Receive state diagram, for ong it back to the I	Add both tx_enable and loc_rcvr_status as inputs to the 'DATA SCRAMBLER' block. esponse Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 # [i-38] w, David Hewlett-Packard Ltd mment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ImagestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status Sponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ER	FALSE' in the 'BAD SSD' state. SuggestedRemedy Delete the 'mii_fc_err' variable and remove from the 'BAD SSD' and 'IDLE' states 'PCS Receive state diagram'. Response Response Status C ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." Cl 96 SC 96.3.3.1 P 50 L 3 # [-2] Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	s of the e false 25 s only use ate = JAE E in the
Response Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw line from tx_enable line to "DATA SCRAMBLER". ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". C C/ 96 SC 96.3.1 P 50 L 12 Im 38 aw, David Hewlett-Packard Ltd ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Comment Type Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. P 50 L 3 # Im 25 Suggested/Remedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. The variable 'JBstate' is generated baged on the JAB state diagram, tit is TUE in the JAB state diagram, tit Scate = JAB. Nowever the variable is never used. In 96.3.2.1 P 50 L 15 Im 37 (2) 96 SC 96.3.1 P 50 L 15 Im 27 (2) 96 SC 96.3.1 P 50 L 15 Im 27 (2) 96 SC 96.3.1	esponse Response Status C ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 # [i-38] w, David Hewlett-Packard Ltd <i>omment Type</i> T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ImagestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Esponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3, ESD1, ESD2, ESD3 and ERR_ESD3 and	Delete the 'mii_fc_err' variable and remove from the 'BAD SSD' and 'IDLE' states 'PCS Receive state diagram'. Response Response Status C ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." Cl 96 SC 96.3.3.1 P 50 L 3 # [-2] Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	e false 25 s only use ate = JAE E in the
ACCEPT. Draw new loc_rovr_status line from left side of diagram to "DATA SCRAMBLER". Draw new loc_rovr_status line from bt_enable line to "DATA SCRAMBLER". Draw line from tt_enable line to "DATA SCRAMBLER" Cl 96 SC 96.3.1 P 50 L 12 # 138 Response Status C Accept In PRINCIPLE. Accept In PRINCIPLE. Add a new paragraph at the end of 96.3.3 fread as follows, "If the BAD SDS 201, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. Comment Status A SuggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Status C Accept IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Status C In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Status C In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Status C In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Status C Cl 96 SC 96.3.3.1 P 50 L 15 # 137 137 Cl 96 SC 96.3.3.1 P 50 L 15 # 137 137 Cl 96 SC 96.3.3.1 P 50 L 15 # 137 137 Cl 96 SC 96.3.3.1 P 50 L 15 # 137 137 Cl 96 SC 96.3.3.1 P 50 L 15 # 137 137	ACCEPT. Draw new loc_rcvr_status line from left side of diagram to "DATA SCRAMBLER". Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 # i-38 w, David Hewlett-Packard Ltd omment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. InggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Esponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."	 'PCS Receive state diagram'. <i>Response</i> Response Status C ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." <i>CI</i> 96 SC 96.3.3.1 P 50 L 3 # i-2 Law, David Hewlett-Packard Ltd <i>Comment Type</i> TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB' 	e false 25 s only use ate = JAE E in the
Draw line from tx_enable line to "DATA SCRAMBLER" Comment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Draw line figure solut base to other figures in this draft. SuggestedRemedy Draw line figure solut base to other figures in this draft. Marvell Semiconducto Comment Type E Comment Status A Marvell Semiconducto Marvell Semiconducto Comment Type E Comment Status A Marvell Semiconducto Marvell Semiconducto <t< td=""><td>Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 # i-38 w, David Hewlett-Packard Ltd mment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ImagestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status Sponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3.</td><td>ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." CI 96 SC 96.3.1 P 50 L 3 # i-2: Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB"</td><td>25 s only use ate = JAE E in the</td></t<>	Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 # i-38 w, David Hewlett-Packard Ltd mment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ImagestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status Sponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3.	ACCEPT IN PRINCIPLE. Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." CI 96 SC 96.3.1 P 50 L 3 # i-2: Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB"	25 s only use ate = JAE E in the
Draw line from tx_enable line to "DATA SCRAMBLER" Cl 96 SC 96.3.3.1 P 50 L 12 # [-38] Add a new paragraph at the end of 96.3.3.5 read as follows. "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the false carrie error should be indicated on the Mil after conversion." Comment Type T Comment Status A Comment Type T Comment Status A SuggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Hewlett-Packard Ltd Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "for the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 are 96.3.2.3.1." Comment Status A Cl 96 SC 96.3.3.1 P 50 L 15 # [-25] Law, David Hewlett-Packard Ltd Comment Status A Correct IN PRINCIPLE. In 96.3.3.1 add "for the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 are 96.3.2.3.1." Is uggest that it is clearer to use a variable set in the JAB state diagram, to control the Receive state diagram, rather than variable that is generated in text. Cl 96 SC 96.3.3.1 P 50 L 15 # [-37] Marcela	Draw line from tx_enable line to "DATA SCRAMBLER" 96 SC 96.3.3.1 P 50 L 12 # i-38 w, David Hewlett-Packard Ltd mment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ImagestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status Sponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3.	Add a new paragraph at the end of 96.3.3.5 read as follows, "If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." CI 96 SC 96.3.1 P 50 L 3 # i-2: Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB"	25 s only use ate = JAE E in the
Add a new paragraph at the end of 96.3.3.5 read as follows. Add a new paragraph at the end of 96.3.3.5 read as follows. Add a new paragraph at the end of 96.3.3.5 read as follows. Add a new paragraph at the end of 96.3.3.5 read as follows. Comment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. SuggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 dd 'For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 are 96.3.2.3.1.* C/ 96 SC 96.3.3.1 P 50 L 13 # 1-25 Law, David Hewlett-Packard Ltd Comment Status A MaccEPT IN PRINCIPLE. In 96.3.3.1 add 'For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 are ER_ESD3. Is control the Receive state diagram, toring it back to the IDLE state is 'B state = JAB', however the variable is never used. C/ 96 SC 96.3.3.1 P 50 L 15 # 1-37 C/ 96 SC 96.3.2.3.1.* P 50 L 15 # 1-37 C/ 96 SC 96.3.2.1.* SC 96.3.2.3.* C Is upagestedRemedy Is upgestedRemedy	96 SC 96.3.3.1 P 50 L 12 # i-38 w, David Hewlett-Packard Ltd pmment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. ImagestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Esponse Response Status ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 and ERR_ESD3 are 96.3.2.3.1."	"If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." Cl 96 SC 96.3.3.1 P 50 L 3 # i-2i Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	25 s only use ate = JAE E in the
Cl 96 SC 96.3.3.1 P 50 L 12 # [-38 Cl 96 SC 96.3.3.1 F 50 L 12 # [-38 aw, David Hewlett-Packard Ltd Image: Comment Status A Image: Comment Statu	w, David Hewlett-Packard Ltd mment Type T Comment Status A The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. <i>IggestedRemedy</i> Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. <i>Esponse Response Status</i> C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."	"If the BAD SSD state occurred in Figure 96-10a PCS Receive state diagram, the carrier error should be indicated on the MII after conversion." Cl 96 SC 96.3.3.1 P 50 L 3 # i-2i Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	25 s only use ate = JAE E in the
The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. Law, David Hewlett-Packard Ltd SuggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status C Accept IN PRINCIPLE. The variable 'UBstate' is generated based on the JAB state diagram, state and its only use is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate = JAB'. The variable rcv_jab_detected is generated by the JAB state diagram to control the Receive state diagram, rather than variable set in the JAB state diagram to control the Receive state diagram, rather than variable that is generated in text. Comment Type E Comment Status A Marvell Semiconducto Marvell Semiconducto SuggestedRemedy Delete the figures such that each transition has it's own entrance to a state Response Response Status C Accept . SuggestedRemedy Delete the figures such that each transition has it's own entrance to a state Response Status C Response Response Status C C Accept .	The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. IggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Sponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 are 96.3.2.3.1."	Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	s only use ate = JAE Ξ in the
The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. Law, David Hewlett-Packard Ltd Suggested/Remedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. The variable 'UBstate' is generated based on the JAB state diagram state and its only use is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate = JAB'. Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1." C/ 96 SC 96.3.3.1 P 50 L 15 # [-37] Accelan, Brett Marvell Semiconducto Isuggest that it is clearer to use a variable set in the JAB state diagram to control the Receive state diagram, rather than variable that is generated by the JAB state = JAB', however the variable that is generated back on the open arrow to the Receive state diagram, rather than variable that is generated in text. SuggestedRemedy Comment Type E Comment Status A transitions that do not share the same conditions should not share an entrance to a state. This also applies to other figures in this draft. SuggestedRemedy Change the figures such that each transition has it's own entrance to a state Response Response Status C Response Response Status C C Acceptr. Comment Status A	The values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 that Rxn are tested against in Figure 96-10a and 96-10b are not defined. IggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Sponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 and ERR_ESD3 are 96.3.2.3.1."	Law, David Hewlett-Packard Ltd Comment Type TR Comment Status A The variable 'JBstate' is generated based on the JAB state diagram state and its of is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate' The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	s only use ate = JAE Ξ in the
ImagestedRemedy Comment Type Ik Comment Type Ik Comment Status A The variable 'JBstate' is generated based on the JAB state diagram, state and its only use is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate = JAB'. ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1." The variable is never used. Is uggest that it is clearer to use a variable set in the JAB state diagram to control the Receive state diagram, rather than variable that is generated in text. Vi 96 SC 96.3.3.1 P 50 L 15 # [:37] Vi 96 SC 96.3.3.1 P 50 L 15 # [:37] Vi 96 SC 96.3.3.1 P 50 L 15 # [:37] Vi 96 SC 96.3.3.1 P 50 L 15 # [:37] Vi 96 SC 96.3.3.1 P 50 L 15 # [:37] Vi 96 SC 96.3.3.1 A Marvell Semiconducto Is uggest that it is clearer to use a variable set in the JAB state diagram to control the Receive state diagram to read 'rcv_jab_detected = TRUE'. Komment Type E Comment Status A Kreiner Status A C Accept Kreiner Status A	ggestedRemedy Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. esponse Response Status ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."	The variable 'JBstate' is generated based on the JAB state diagram state and its or is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	ate = JAE E in the
Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. Response Response Status ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 are 96.3.2.3.1." X/ 96 SC 96.3.3.1 P 50 L 15 Marvell Semiconducto Comment Type E Comment Type E Comment Status A This also applies to other figures such that each transition has it's own entrance to a state Response Response Status Change the figures such that each transition has it's own entrance to a state Response Response Status Change the figures such that each transition has it's own entrance to a state Response Response Status C C	Define the values IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3. esponse Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."	is to control the Receive state diagram, forcing it back to the IDLE state is 'JBstate The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	ate = JAE E in the
Response Response Status C ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1." The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE in the JAB state, and faise in all other states. It is therefore equivalent to 'JBstate = JAB', however the variable is never used. C/ 96 SC 96.3.3.1 P 50 L 15 # [:37] Comment Type E Comment Status A Comment Type E Comment Status A Chage the figures such that each transition has it's own entrance to a state. This also applies to other figures such that each transition has it's own entrance to a state. Response Response Status C Response Response Status C A A A C A In 96.3.3.1 P 50 L 15 # [:37] B B C B C B C B C B C B C C B C C C B C C C C C C A C C A C A C A C A C	ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."	The variable rcv_jab_detected is generated by the JAB state diagram, it is TRUE JAB state, and false in all other states. It is therefore equivalent to 'JBstate = JAB'	E in the
ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1." C/ 96 SC 96.3.3.1 P 50 L 15 L 15 # i-37 Accelulan, Brett Marvell Semiconducto Comment Type E Commen	ACCEPT IN PRINCIPLE. In 96.3.3.1 add "For the definition of IDLE, SSD1, SSD2, SSD3, ESD1, ESD2, ESD3 and ERR_ESD3 see 96.3.2.3.1."		R'
ERR_ESD3 see 96.3.2.1." C/ 96 SC 96.3.3.1 P 50 L 15 # i-37 Accellan, Brett Marvell Semiconducto Marvell Semiconducto Comment Type E Comment Status A transitions that do not share the same conditions should not share an entrance to a state. This also applies to other figures in this draft. C SuggestedRemedy Change the figures such that each transition has it's own entrance to a state Response Response Status C Response Response Status C	ERR_ESD3 see 96.3.2.3.1."	however the variable is never used.	, ب
Acclellan, Brett Marvell Semiconducto Comment Type E Comment Status A transitions that do not share the same conditions should not share an entrance to a state. This also applies to other figures in this draft. SuggestedRemedy Change the figures such that each transition has it's own entrance to a state Response Response Status C C	96 SC 96.3.3.1 P 50 L 15 # i-37		ol the
Comment Type E Comment Status A transitions that do not share the same conditions should not share an entrance to a state. IDLE state in the Receive state diagram to read 'rcv_jab_detected = TRUE'. This also applies to other figures in this draft. Response Response Status C SuggestedRemedy Change the figures such that each transition has it's own entrance to a state ACCEPT. C Response Response Status C		55 ý	
transitions that do not share the same conditions should not share an entrance to a state. Response Response Status C This also applies to other figures in this draft. ACCEPT. ACCEPT. SuggestedRemedy C C Change the figures such that each transition has it's own entrance to a state Response Response Status C			w to the
Change the figures such that each transition has it's own entrance to a state Response Response Status C	transitions that do not share the same conditions should not share an entrance to a state.		
Response Response Status C	agestedRemedy		
	Change the figures such that each transition has it's own entrance to a state		
ACCEPT.	esponse Response Status C		
	ACCEPT.		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 96 SC 96.3.3.1

C/ 96 SC 96.3.3.1	P 50	L 39	# i-27		C/ 96 SC 96.3.3.1	P 52	1.00	# . 10	
Law, David	Hewlett-Packa	ard Ltd			Law, David	P 52 Hewlett-Pack	<i>L</i> 26 ard Ltd	# li-43	
Comment Type E Typo	Comment Status A			EZ	Comment Type E If this is a note, pleas	Comment Status A e use the correct formatting fo	r a note.		EZ
SuggestedRemedy Receiving' should read	d 'receiving' in state 'SSD'.				SuggestedRemedy See comment.				
Response ACCEPT.	Response Status C				Response ACCEPT IN PRINCIF	Response Status C LE.			
C/ 96 SC 96.3.3.1 Law, David	P 52 Hewlett-Packa	<i>L</i> 20 ard Ltd	# <u>i-24</u>		On page 52 line 27, c to "In".	hange "Note that, in"			
Comment Type E Please remove the bol SuggestedRemedy	Comment Status A Iding of 'receiving = TRUE + re	cv_max_timer_d	one = TRUE'.	EZ	C/ 96 SC 96.3.3.1 Law, David	P 52 Hewlett-Pack	L 26 ard Ltd	# i-39	
See comment.					Comment Type E	Comment Status A			ΕZ
Response ACCEPT.	Response Status C				Typo. SuggestedRemedy Suggest that ' befor	e DATA state;' should read '	before the DAT	A state:'.	
Cl 96 SC 96.3.3.1 Law, David	P 52 Hewlett-Packa	L 26 ard Ltd	# i-40		Response ACCEPT.	Response Status C		,	
Comment Type E Typo.	Comment Status A			EZ	C/ 96 SC 96.3.3.1 Law, David	P 52 Hewlett-Pack	L 27 ard Ltd	# i-41	
SuggestedRemedy Suggest that ' there	are total of' should read ' t	there are a total	of'.		Comment Type E	Comment Status A			EZ
Response ACCEPT.	Response Status C					s before IDLE state (including (including the DATA state)'		should read ' stat	tes
					Response ACCEPT.	Response Status C			

C/ 96 SC 96.3.3.1

C/ 96 SC 96.3.3.1	P 52	L 27	# i-42	C/ 96	SC 96.3.3.1		P 52	L 7	# i-22
Law, David	Hewlett-Packa	ard Ltd		Law, David		ŀ	lewlett-Pack	ard Ltd	
Comment Type T	Comment Status A		E	Z Comment 7	Туре Т	Comment St	atus A		
Suggest reword without the requirements.	suse if shall statement as	state diagram co	ontains the normative	describ	ed in 40.4.5.2.'.		nere is no de	finition for what	assigning a timer witl
SuggestedRemedy Suggest that ' that shall c	to DATA decoding.' be ch	anged to read '	. that perform DATA	rcv_ma	ax_timer_done.	, Ç		0 ,	er tests the value of
decoding.'. Response R ACCEPT.	Response Status C			rcv_ma rcv_ma	ax_timer', so as a ax_timer_done is		5.2 through it it that point. I	ts reference to 1 Based on this I o	ion 'start 4.2.3.2, the variable don't see the need for
C/ 96 SC 96.3.3.1	P 52	L 28	# i-44	Suggested	Remedy				
aw, David	Hewlett-Packa	ard Ltd		Delete	the action 'rcv_r	max_timer <= 0'	in the state '	JABIDLE'.	
Comment Type E	Comment Status A		E	z Response		Response Sta	atus C		
Suggested rewording of the	e second sentence of the	note.		ACCEF	PT.				
Suggest that the second se	entence of the note be cha	anged to read 'As	s a result, the depth of	Wu Peter		n n	viarveli Semi	conducto	
data flush-in delay line is th reception at the MII.'. Response R ACCEPT.		delay line ensurin	ng correct packet	Suggested	gure 96-10a is n	Comment St			are not fully shown
data flush-in delay line is the reception at the MII.'. Response R ACCEPT. C/ 96 SC 96.3.3.1 .aw, David	ne same as the flush-out d Response Status C P 52 Hewlett-Packa	delay line ensurin	ng correct packet # [i-45	Comment T The Fig Suggested Re-alig Response ACCEF	gure 96-10a is n <i>Remedy</i> In the figure	Comment St	atus A some of the t		are not fully shown
data flush-in delay line is th reception at the MII.'. Response R ACCEPT. C/ 96 SC 96.3.3.1 aw, David	ne same as the flush-out d Response Status C P 52 Hewlett-Packa Comment Status A	delay line ensurin <i>L</i> 32 ard Ltd	ng correct packet # <u>i-45</u> E	Comment T The Fig Suggested Re-alig Response ACCEF	gure 96-10a is n <i>Remedy</i> In the figure PT.	Comment St not aligned well,	atus A some of the s atus C	first line letters a	
data flush-in delay line is the reception at the MII.'. Response R ACCEPT. Cl 96 SC 96.3.3.1 aw, David Comment Type E C There are variables, function	ne same as the flush-out d Response Status C P 52 Hewlett-Packa Comment Status A ons and timers defined for	<i>L</i> 32 ard Ltd these state diag	# [<u>i-45</u> # [i-45 prams.	Comment T The Fig Suggested Re-alig Response ACCEF	gure 96-10a is n <i>Remedy</i> In the figure PT. to increase the v SC 96.3.3.1 .	Comment St not aligned well, Response Sta vertical size to ar 1	atus A some of the atus C nchor frame of <i>P</i> 52 Hewlett-Pack	first line letters a containing the figure <i>L</i> 36	
data flush-in delay line is the reception at the MII.'. Response R ACCEPT. If 96 SC 96.3.3.1 aw, David Romment Type E C There are variables, function uggestedRemedy Change the text 'The state timers used in Figure'.	ne same as the flush-out d Response Status C P 52 Hewlett-Packa Comment Status A ons and timers defined for	<i>L</i> 32 ard Ltd these state diag	# [<u>i-45</u> # [i-45 prams.	Comment T The Fig Suggested Re-alig Response ACCEF Editor t C/ 96 Law, David Comment T Please	gure 96-10a is n Remedy in the figure PT. to increase the v SC 96.3.3.1. ² Type ER format the varia	Comment St not aligned well, Response Sta vertical size to ar 1 1 F Comment St	atus A some of the s atus C nchor frame of <i>P</i> 52 Hewlett-Pack atus A s found in su	first line letters a containing the fig <i>L</i> 36 ard Ltd	gure.
data flush-in delay line is the reception at the MII.'. Response R ACCEPT. Cl 96 SC 96.3.3.1 .aw, David Comment Type E C There are variables, function SuggestedRemedy Change the text 'The state timers used in Figure'. Response R	he same as the flush-out d Response Status C P 52 Hewlett-Packa Comment Status A ons and timers defined for variables in Figure' to r	<i>L</i> 32 ard Ltd these state diag	# [<u>i-45</u> # [i-45 prams.	Comment T The Fig Suggested Re-alig Response ACCEF Editor t C/ 96 Law, David Comment T Please variable Suggested	gure 96-10a is n Remedy In the figure PT. to increase the v SC 96.3.3.1. Type ER format the variates' here and else	Comment St not aligned well, Response Sta vertical size to ar 1 Comment St able definitions a	atus A some of the s atus C nchor frame of <i>P</i> 52 Hewlett-Pack atus A s found in su	first line letters a containing the fig <i>L</i> 36 ard Ltd	gure. # <u>i-23</u>

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 96 SC 96.3.3.1.1 Page 16 of 23 6/26/2015 3:10:53 PM

C/ 96 SC 96.3.3.1.1	P 53	L7	# i-32	C/ 96	SC 96	6.3.3.1.4	P 53	L 43	# i-33
Law, David	Hewlett-Packa	ard Ltd		Law, David			Hewlett-Pack	kard Ltd	
Comment Type T	Comment Status A			Comment 7	Гуре	TR	Comment Status A		
			nce these variables are	is no cl by the l other th in subc	ear desc PMA_UN han a me lause 96 D ternary	cription the NITDATA. Intion on S.3.3.1.2	essages' defines 'PUDI' ho at I can find of now the 'rx_ indication primitive from th de-interleaving rx_symb_v Functions' and a statemen n, RBn) first' in subclause	_symb_vector' ter le PMA are mapp ectors in the chec t that 'received sy	nary symbols supplied ed to rx_symb_pair ck_idle function defined mbols are converted
ACCEPT.				Suggestedl	Remedy				
C/ 96 SC 96.3.3.1.2 Law, David	P 53 Hewlett-Packa	<i>L</i> 36 ard Ltd	# i-21	[1] Upd	late the o	descriptio	n in subclause 96.3.3.2 'P(r and rx_symb_pair.	CS Receive symb	ool decoding' to use the
Comment Type E	Comment Status A			[2] Ren	nove sub	oclause 9	6.3.3.1.4 'Messages' and it	definition of 'PUI	OI' as it is not used by
The text states that 'The s cross-reference, subclaus 96.3.3.2 is the 'PCS Rece	e 96.3.3.1 is the 'PCS Red			the stat	te diagra e rx_sym	ims. Alter	natively, provide a state dia received in the message F function of the state diagra	agram that uses I PUDI is mapped t	PUDI and describes
SuggestedRemedy				[3] Sua	oest a d	iagram si	milar to 96-8 'PCS transmi	t symbol mapping	' be provided for the
Change the cross-referen			delete this sentence as			mbol map		, , , , , , , , , , , , , , , , , , , ,	
it doesn't seem particular		of this timer.		Response			Response Status C		
	Response Status C			ACCEF	PT IN PR	RINCIPLE			
ACCEPT IN PRINCIPLE. Remove "The symbol con	version is as specified in S	96.3.3.1."		interlea to	ives the eceiver d	sequence	on page 53 line 48, chang es accordingly." ves the sequences of rx_s		
				"The re			ine 51, change re converted to a 2-D terna	ary pair (RAn, RB	n) first."
				to "The re (RAn, F		symbols, r	x_symb_vector, are de-int	erleaved to gene	erate rx_symb_pair
				Remed The de	-interlea	e interleav	nove subclause 96.3.3.1.4 ving process is explained in e 2-D ternary pair (RAn, RI mplementors.	n the transmit sec	tion, see Figure 96-8.
				Additio	nallv a c	diagram a	s described by commenter	rs suggested rem	edv [3] will be added

C/ 96 SC 96.3.3.1.4 Page 17 of 23 6/26/2015 3:10:53 PM

	0		"		00 00 / /	0.50		
C/ 96 SC 96.3.3.2	P 54 Hewlett-Pack	L1 ard Ltd	# i-46	C/ 96	SC 96.4.1	P 56 Hewlett-Pack	L 12	# i-55
(RAn, RBn) are decoded These signals are proced RX_DV and RX_ER at the generates pcs_rx_er, pot the 3B/4B conversion. SuggestedRemedy Suggest that the text ' generate signals rx_ Should be changed to re	Hewlett-Packa <i>Comment Status</i> A S Receive symbol decoding' d to generate signals rx_data assed through 3B/4B converses the MII'. Is this correct as Fig cs_rx_dv and rx_data<2:0> a data<2:0>, rx_dv, and rx_erri- ead data<2:0>, pcs_rx_dv, and p	states that 'The a<2:0>, rx_dv, a sion to generate jure 96-10 'PCS and isn't it these ror.'	and rx_error.' and that ' e signals RXD<3:0>, i Receive state diagram'	the 36.2 point of subclaus 40.4.2.1 36.2.5.1 register, PHY in a IEEE Sto registers SuggestedR Change	reads 'This fr 5.1.3 referen stating that 'th e 40.4.2.1 wi I don't see ar 3 does menti but this is no mode where I 802.3-2012 this bit will n emedy the text 'This	Hewlett-Pack Comment Status A unction shall conform to 40.4.2 ce is valid and the optional LP ie 36.2.5.1.3 reference is valid Il be followed without any excu- ny reference to 'optional LPI'. To on the low power mode bit (0. t related to LPI. Instead this is by it is only required to respon- subclause 22.2.4.1.5). Since ot be supported. function shall conform to 40.4	2.1 without any ex Preference is not d'since it is alread eptions. Further, of The definition of p 11) in the Clause a Power down bind to managemen 100BASE-T1 is s 2.2.1 without any of	t used.' I don't see the dy stated that on examination of power_on in subclause 22 MII Control it which places the nt transactions (see upporting Clause 45 exceptions, noting that
Response ACCEPT. Cl 96 SC 96.4	Response Status C	L 4	# [i-54	function Response		ce is valid and the optional LF to 40.4.2.1.'. <i>Response Status</i> C LE.	I reference is not	used.' to read 'This
and from medium using SuggestedRemedy Suggest the text 'The Pl medium using 3-level	Hewlett-Packa Comment Status A ext 'The PMA provides full du '. MA provides full duplex com .' be changed to read 'The P from medium employing 3-le	uplex communic munications em MA provides fu	ploying to and from	referenc to "This fu	nction shall co e is valid and	onform to 40.4.2.1 without any the optional LPI reference is r onform to 40.4.2.1. The option orted."	not used."	
Response	Response Status C							

ACCEPT.

C/ 96 SC 96.4.2	P 58	L 15	# i-50	CI 96	SC 9	6.4.2	P 58	L 19	# i-51
₋aw, David	Hewlett-Packa	ard Ltd		Law, David	I		Hewlett-	Packard Ltd	
Comment Type T	Comment Status A			Comment	Туре	т	Comment Status	L	
separate variables, see su read 'PHY Control sets tx_ SEND_I and SEND_Z des	rol config sets tx_mode to . ubclause 96.4.7.1 for their of _mode to' as it is tx_mod scribed, not config. Based of connection of tx_mode to	definitions. I beli le that can take on this Figure 96	eve this text should the values SEND_N, S-14 and 96-25 both	Function PMA_0 primitiv	on derive CONFIG /e PMA_	es the T indicate _CONFI	PMA_CONFIG indicates X_TCLK from a local clo es SLAVE mode'. It is G that can take the vale	ock source. When the parameter conf	ig contained in the
SuggestedRemedy				Suggested					
•• •	Control config sets tx_mode	e to' to read 'F	PHY Control sets	'When the TX	_TCLK f	ONFIG	indicates MASTER mod ocal clock source. When es SLAVE mode'		nsmit Function derives
[2] In Figure 96-14 add a	connection of tx_mode to the	ne PMA TRANS	MIT block.						
[3] In Figure 96-15 add a	nput arrow labled tx_mode			be cha	inged to	read			
	Response Status C			PMA T	ransmit	Functio	neter in the PMA_CONF n derives the TX_TCLK _CONFIG primitive indic	from a local clock se	ource. When the config
Accept remedy#1.				Response			Response Status	;	
On page 58, line 15, mov normal MII Data Stream, (or idle), SEND_I (transmi code-groups). " to the end of 96.4.4.	e "PHY Control sets tx_mo Control Information, ssion of IDLE code-groups nenter's [2] and [3] suggest), or SEND_Z (tr		Chang "'Wher TX_TC Transn	e text to the cor LK from	nfig para n a local tion deri	meter is set to MASTEF	config parameter is	Function derives the set to SLAVE, the PMA
				C/ 96	SC 9	6.4.3	P 58	L 37	# i-52
				Law, David	I		Hewlett-	Packard Ltd	
				Comment	Туре	Е	Comment Status	L	E
				states of the i	'The par receive l	rameter link at th	generate loc_rcvr_statu: loc_rcvr_status is gener e local PHY.'. The parer vides an explanation of	ated by PMA Receiventhetical text seems	ve to indicate the status redundant as the
				Suggested	Remedy	/			
				Delete	the text	'(genera	al status of local receive	r)'.	
				Response			Response Status	•	

ACCEPT.

C/ 96 SC 96.4.3

Cl 96 SC 96.4.3 Law, David	P 58 Hewlett-Pack	<i>L</i> 39 ard Ltd	# i-53	<i>Cl</i> 96 Law, David	SC 96.4.7.1	P 59 Hewlett-Pack	L 42 kard Ltd	# i-48
Comment Type E	Comment Status A			Comment Ty	vpe T Cor	nment Status A		
Suggest the text ' com describe what information detail. SuggestedRemedy	veys the information' is ur on, whether the status of the			The des continuo implies i PHY CO	cription of the config v pusly and pass it to the t is a output of the sta	PCS via the PMA_C te diagram, and Figur actually used as an	CONFIG.indication re 96-14 shows it a input to Figure 96	primitive.' which as an output of the -17 'PHY Control state
Delete the text ' conve	eys the information			SuggestedR	emedy			
Response	Response Status C			Please p	provide details of how	this variable is generation	ated.	
ACCEPT IN PRINCIPLE				Response	Resi	oonse Status C		
	variable indicates to the P0 d Link Monitor whether the s			•	T IN PRINCIPLE.			
or not."				See resp	oonse to comment #i-	56.		
C/ 96 SC 96.4.4	P 59	L 21	# i-47	The resp	oonse to comment i-56	is copied below for t	the convenience o	f the reader.
.aw, David Comment Type E	Hewlett-Pack	ard Ltd	EZ	ACCEP	T IN PRINCIPLE.			
frames are exchanged v	PHY into the 100BASE-T1 r vith the link partner.' should of operation so that frames	be changed to re	ead ' the PHY into	two sign output si Re-direc	us to the right side of al inputs to the "MAN/ ignal from "MANAGEN t the output "config" s dified figure in http://ie	AGEMENT" block, ca //ENT" block and con ignal of "PHY CONTF	lled "MDIO" and " nect it to the exist ROL" to be input to	MDC". Generate an ing "config" signal. • "PHY CONTROL".
Response ACCEPT.	Response Status C				e subclause 96.2.1 an			•
				text. Also	ure 96-3, remove the o, remove the three lir ONFIG.indication and	nes labeled PMA_LIN		
				4) In Fig	ure 96-14, follow the s	ame modification as	above for Figure	96-2.
				"ÉORĊE		ink_control to ENABL	0	initialization.Link be provided to support
				support	onitor operation, as sh PHY Control. FORCE EMENT during the PH	mode is used to set I		
				6) On pa	age 59 line 45, change			
TYPE: TR/technical required	ER/editorial required GR/ batched A/accepted R/reje				l/unsatisfied 7/withdr	C/ 9	6 6.4.7.1	Page 20 of 23 6/26/2015 3:10:54 I

COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 96.4.7.1	6/26/2015 3:10:54 PM
SORT ORDER: Clause, Subclause, page, line			

"link_control This variable is configured by management or set by default and is defined in 28.2.6.2. "

То

"link_control This variable is generated by MANAGEMENT or set by default."

7) on page 43 line 8, change

"config The config parameter set by PMA and passed to the PCS via the PMA_CONFIG.indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

8) On page 59 line 42, change

"config The PMA shall generate this variable continuously and pass it to the PCS via the PMA_CONFIG.indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

9) On page 32 line 39, remove PMA_CONFIG.indication (config) . Also remove sub-clause 96.2.4 and its children.

	Howlet		
	Tiewie	tt-Packard Ltd	
	Comment Status nis variable is passed t		A_LINK.request
emedy			
n 28.2.6.2.' to	read ' This variable is	configured by manage	ment or set by default
IN PRINCIPI	1	С	
onse to comn	nent #i-56.		
	to state that the emedy the text ' This n 28.2.6.2.' to assed to the P	to state that this variable is passed to emedy the text ' This variable is configured n 28.2.6.2.' to read ' This variable is ussed to the PMA via the PMA_LINK	to state that this variable is passed to the PMA via the PMA emedy the text ' This variable is configured by management or set n 28.2.6.2.' to read ' This variable is configured by manage used to the PMA via the PMA_LINK.request primitive (see <i>Response Status</i> C IN PRINCIPLE.

The response to comment i-56 is copied below for the convenience of the reader.

ACCEPT IN PRINCIPLE.

1) In Figure 96-2, remove the dashed line at top with "Technology Dependent Interface" text. Add a block label as "MANAGEMENT" at top. Connect the two lines link_control and link_status to the right side of this new "MANAGEMENT" block. From left hand-side, add two signal inputs to the "MANAGEMENT" block, called "MDIO" and "MDC". Generate an output signal from "MANAGEMENT" block and connect it to the existing "config" signal. Re-direct the output "config" signal of "PHY CONTROL" to be input to "PHY CONTROL". See modified figure in http://ieee802.org/3/bw/public/Chini_3bw_01_0515.pdf.

2) Delete subclause 96.2.1 and all children subclauses, and re-number other sub-clauses accordingly.

3) In Figure 96-3, remove the dashed line at top and "Technology Dependent Interface" text. Also, remove the three lines labeled PMA_LINK.request, PMA_LINK.indication, and PMA_CONFIG.indication and the text.

4) In Figure 96-14, follow the same modification as above for Figure 96-2.

5) On page 59 line 29, change

"FORCE mode is used to set link_control to ENABLE during the PHY initialization.Link Monitor operation, as shown in state diagram of Figure 96–18, shall be provided to support PHY Control."

to

"Link Monitor operation, as shown in state diagram of Figure 96–18, shall be provided to support PHY Control. FORCE mode is used to set link_control to ENABLE through MANAGEMENT during the PHY initialization."

6) On page 59 line 45, change

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general		CI 96	Page 21 of 23
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 96.4.7.1	6/26/2015 3:10:54 PM
SORT ORDER: Clause, Subclause, page, line			

"link_control This variable is configured by management or set by default and is defined in 28.2.6.2. "

То

"link_control This variable is generated by MANAGEMENT or set by default."

7) on page 43 line 8, change

"config The config parameter set by PMA and passed to the PCS via the PMA_CON-FIG.indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

8) On page 59 line 42, change

"config The PMA shall generate this variable continuously and pass it to the PCS via the PMA_CONFIG.indication primitive."

То

"config The config parameter is set by MANAGEMENT and passed to the PMA and PCS."

9) On page 32 line 39, remove PMA_CONFIG.indication (config) . Also remove sub-clause 96.2.4 and its children.

C/ 96	SC 96.6	P 71	L 26	#	i-34
Thompson,	Geoffrey	INDEPE	ENDENT		

Comment Type T Comment Status A

In 802.3, management is optional (see quotation from 30.1, Management Overview, below), and the way of doing management registers and the management interface are also optional (see quotations from 80.2.7 Management interface (MDIO/MDC) and Clause 55, 10GBASE-T, below). This is desirable: some small or highly integrated products won't have an exposed MDIO interface, and some (e.g. SFP+ modules) use a different memory map and interface that provides an equivalent function to Clause 45, and can be converted by another part of the system.

This sentence "100BASE-T1 shall use the management interface as specified in Clause 45 and the PHY-Initialization which is described in the following section." joins two separate requirements with one "shall" (also it lacks a PICS). The first one, "shall use the management interface as specified in Clause 45" was a response to D1.2 comment 91 which asked "is the management interface normative or optional?" The text needs to be changed to show that Clause 45 is optional. Also, the "shall be configured" in 96.6.1 won't work, because shalls in this clause apply to just the PHY, and something else would do the configuring.

Editorials: it's the following two sections, and they should be called subclause or explicitly identified. PHY-initialization, MASTER-SLAVE configuration and MASTER-SLAVE assignment are the same thing, so must be identified by the same name. Rogue capital in "PHY-Initialization", line 28.

From 30.1 Overview

In CSMA/CD no peer management facilities are necessary for initiating or terminating normal protocol operations or for handling abnormal protocol conditions. Since these activities are subsumed by the normal operation of the protocol, they are not considered to be a function of Layer Management and are, therefore, not discussed in this clause. Implementation of part or all of Layer Management is not a requirement for conformance to any other clause of this standard.

80.2.7 Management interface (MDIO/MDC)

The optional MDIO/MDC management interface (Clause 45) provides an interconnection between MDIO Manageable Devices (MMDs) and Station Management (STA) entities.

55.3.7 PCS management

The following objects apply to PCS management. If an MDIO Interface is provided (see Clause 45), they are accessed via that interface. If not, it is recommended that an equivalent access be provided.

55.5.2 Test modes

The test modes described below shall be provided to allow for testing of the transmitter waveform, transmitter distortion, transmitted jitter, transmitter droop and BER testing. For a PHY with an MDIO management interface, these modes shall be enabled by setting bits...

55.6 Management interfaces

10GBASE-T makes extensive use of the management functions that may be provided by

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general		C/ 96	Page 22 of 23
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 96.6	6/26/2015 3:10:54 PM

SORT ORDER: Clause, Subclause, page, line

the MDIO (Clause 45)...

SuggestedRemedy

Change 96.6, 96.6.1 and 96.6.2 to: 96.6 MASTER-SLAVE assignment 100BASE-T1 uses MASTER-SLAVE assignment. A method for configuring a PHY as MASTER or SLAVE shall be provided. The optional MDIO/MDC management interface (Clause 45) may be used; if not, it is recommended that an equivalent access be provided. MASTER-SLAVE assignment for each link configuration is necessary for establishing the timing control of each PHY. In 100BASE-T1, one PHY is configured as MASTER and one PHY is configured as SLAVE to operate. In case both PHYs are configured to be MASTER or SLAVE, operation is undefined. [Then, text as in present 96.6.2 PHY-initialization]

Add PICS for "A method for configuring a PHY as MASTER or SLAVE shall be provided."

Response Response Status C

ACCEPT IN PRINCIPLE.

All register additons in Clause 45 shall have PICS in the manner customary for Clause 45.